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L1	36485	(provid\$4 send\$4 forward\$4 furnish\$4 suppl\$4 present\$4) with (state condition context situation) with user not abbott.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/24 10:01
L2	36774	(provid\$4 send\$4 forward\$4 furnish\$4 suppl\$4 present\$4) with (state condition context\$4 situation) with user	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/24 10:01
L3	1142	(1 2) and (context\$4 state condition situations) with model\$5 same (attributes values parameters variables)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/24 10:02
L4	107	3 and 715/708,789, 744-748;709/203,213,214,202, 224;706/45,60,61,65.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/24 10:04
L5	64	4 and (analys\$4 detect\$4 notification notifer) with (component module program routine software)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/24 10:06
L6	26	5 and determin\$4 with (event condition occur\$4) same received with (information data)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/24 10:07
L7	24	6 and wearable with computer	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/24 10:07
L8	1	6 and wearable with computer not abbott.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/24 10:08
L9	1145	((component module) same (analyz\$4 determin\$4 judg\$4) with received with (data information)). clm.	US-PGPUB	OR	ON	2006/11/24 10:09

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L10	30	9 and (detect\$4 determin\$4 track\$4) with type with (event occur\$5)	US-PGPUB	OR	ON	2006/11/24 10:11
L11	0	10 and (present\$4 provid\$4 suppl\$4) with notification same detected with occurrence	US-PGPUB	OR	ON	2006/11/24 10:13
L12	0	10 and (present\$4 provid\$4 suppl\$4) with (notif\$5 inform\$4) same detected with occurrence	US-PGPUB	OR	ON	2006/11/24 10:13
L13	0	10 and (present\$4 provid\$4 suppl\$4) with (notif\$5 inform\$4) same detected with (event occurrence)	US-PGPUB	OR	ON	2006/11/24 10:13



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1 [A framework for event-based software integration](#)



Daniel J. Barrett, Lori A. Clarke, Peri L. Tarr, Alexander E. Wise

October 1996 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 5 Issue 4

Publisher: ACM Press

Full text available: pdf(413.46 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Although event-based software integration is one of the most prevalent approaches to loose integration, no consistent model for describing it exists. As a result, there is no uniform way to discuss event-based integration, compare approaches and implementations, specify new event-based approaches, or match user requirements with the capabilities of event-based integration systems. We attempt to address these shortcomings by specifying a generic framework for event-based integration< ...

Keywords: CORBA, FIELD, Polylith, control integration, event-based systems, interoperability, reference model, software integration

2 [An Internet-based negotiation server for e-commerce](#)

Stanley Y.W. Su, Chunbo Huang, Joachim Hammer, Yihua Huang, Haifei Li, Liu Wang, Youzhong Liu, Charnyote Pluempitiwiriawej, Minsoo Lee, Herman Lam

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(355.19 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper describes the design and implementation of a replicable, Internet-based negotiation server for conducting bargaining-type negotiations between enterprises involved in e-commerce and e-business. Enterprises can be buyers and sellers of products/services or participants of a complex supply chain engaged in purchasing, planning, and scheduling. Multiple copies of our server can be installed to complement the services of Web servers. Each enterprise can install or select a trusted negotia ...

Keywords: Constraint evaluation, Cost- benefit analysis, Database, E-commerce, Negotiation policy and strategy, Negotiation protocol

3 A graphical definition of authorization schema in the DTAC model



Jonathon E. Tidswell, John M. Potter

May 2001 **Proceedings of the sixth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available: pdf(186.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The specification of constraint languages for access control models has proven to be difficult but remains necessary for safety and for mandatory access control policies. While the authorisation relation $(Subject \times Object \rightarrow pow)$ defines the authorised permissions an authorisation schema defines how the various concepts (such as subjects, users, roles, labels) are combined to form a complete access control model. Using examples drawn from common access contr ...

Keywords: DTAC, access control, computer security, constraints, dynamic, graphs, roles, schema, type

4 Distributed systems: Adaptive domain model: dealing with multiple attributes of self-managing distributed object systems

Pavel Motuzenko

September 2003 **Proceedings of the 1st international symposium on Information and communication technologies ISICT '03**

Publisher: Trinity College Dublin

Full text available: pdf(245.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Self-managing software has emerged as modern systems have become more complex. Some of the distributed object systems may contain thousands of objects deployed on tens or even hundreds hosts. Development and support of such systems often costs a lot. To solve this issue the systems, which are capable supporting multiple self-managing attributes, should be created. In the paper, the Adaptive domain concept is introduced as an extension to the basic domain concept to support a generic adaptation e ...

5 The Logical Record Access Approach to Database Design



Toby J. Teorey, James P. Fry

June 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 2

Publisher: ACM Press

Full text available: pdf(2.81 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 The HiPAC project: combining active databases and timing constraints



M. J. Carey, M. Livny, R. Jauhari

March 1988 **ACM SIGMOD Record**, Volume 17 Issue 1

Publisher: ACM Press

Full text available: pdf(1.39 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The HiPAC (High Performance ACTIVE database system) project addresses two critical problems in time-constrained data management: the handling of timing constraints in databases, and the avoidance of wasteful polling through the use of situation-action rules that are an integral part of the database and are monitored by DBMS's condition monitor. A rich knowledge model provides the necessary primitives for definition of timing constraints, situation-action rules, and precipitating events. The ...

7 Requirements interaction management

William N. Robinson, Suzanne D. Pawlowski, Vecheslav Volkov

June 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 2



Publisher: ACM Press

Full text available: pdf(1.24 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Requirements interaction management (RIM) is the set of activities directed toward the discovery, management, and disposition of critical relationships among sets of requirements, which has become a critical area of requirements engineering. This survey looks at the evolution of supporting concepts and their related literature, presents an issues-based framework for reviewing processes and products, and applies the framework in a review of RIM state-of-the-art. Finally, it presents seven research ...

Keywords: KAOS, KATE, Oz, Requirements engineering, Telos, WinWin, analysis and design, composite system, deficiency driven design, dependency analysis, distributed intentionality, interaction analysis, software cost reduction (SCR), system architecture, system specification, viewpoints

8 Communication design for electronic negotiations on the basis of XML schema



Michael Ströbel

April 2001 **Proceedings of the 10th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(214.16 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: XML, application framework, electronic negotiation, ontology

9 Group and topic discovery from relations and text



Xuerui Wang, Natasha Mohanty, Andrew McCallum

August 2005 **Proceedings of the 3rd international workshop on Link discovery LinkKDD '05**

Publisher: ACM Press

Full text available: pdf(213.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a probabilistic generative model of entity relationships and textual attributes that simultaneously discovers groups among the entities and topics among the corresponding text. Block-models of relationship data have been studied in social network analysis for some time. Here we simultaneously cluster in several modalities at once, incorporating the words associated with certain relationships. Significantly, joint inference allows the discovery of groups to be guided by the emerging to ...

Keywords: graphical models, relational learning, text modeling

10 Intrusion detection: Anomaly detection of web-based attacks



Christopher Kruegel, Giovanni Vigna

October 2003 **Proceedings of the 10th ACM conference on Computer and communications security**

Publisher: ACM Press

Full text available: pdf(252.97 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Web-based vulnerabilities represent a substantial portion of the security exposures of computer networks. In order to detect known web-based attacks, misuse detection systems are equipped with a large number of signatures. Unfortunately, it is difficult to keep up with the daily disclosure of web-related vulnerabilities, and, in addition,

vulnerabilities may be introduced by installation-specific web-based applications.
Therefore, misuse detection systems should be complemented with anomaly dete ...

Keywords: anomaly detection, network security, world-wide web

11 Deductive database languages: problems and solutions



Mengchi Liu

March 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 1

Publisher: ACM Press

Full text available: pdf(254.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Deductive databases result from the integration of relational database and logic programming techniques. However, significant problems remain inherent in this simple synthesis from the language point of view. In this paper, we discuss these problems from four different aspects: complex values, object orientation, higher-orderness, and updates. In each case, we examine four typical languages that address the corresponding issues.

Keywords: complex object databases, deductive databases, inheritance, logic programming, nested relational databases, object-oriented databases

12 A framework for modeling and evaluating automatic semantic reconciliation

Avigdor Gal, Ateret Anaby-Tavor, Alberto Trombetta, Danilo Montesi

March 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 14 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(472.75 KB) Additional Information: [full citation](#), [abstract](#)

The introduction of the Semantic Web vision and the shift toward machine understandable Web resources has unearthed the importance of automatic semantic reconciliation. Consequently, new tools for automating the process were proposed. In this work we present a formal model of semantic reconciliation and analyze in a systematic manner the properties of the process outcome, primarily the inherent uncertainty of the matching process and how it reflects on the resulting mappings. An important featur ...

Keywords: Mapping, Ontology versioning, Semantic interoperability

13 Logical modeling of temporal data



Arie Segev, Arie Shoshani

December 1987 **ACM SIGMOD Record , Proceedings of the 1987 ACM SIGMOD international conference on Management of data SIGMOD '87**, Volume 16 Issue 3

Publisher: ACM Press

Full text available: pdf(1.44 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we examine the semantics and develop constructs for temporal data independent of any traditional data model, such as the relational or network data models. Unlike many other works which extend existing models to support temporal data, our purpose is to characterize the properties of temporal data and operators over them without being influenced by traditional models which were not specifically designed to model temporal data. We develop data constructs that represent sequences ...

14

Meta data management: Statistical schema matching across web query interfaces



Bin He, Kevin Chen-Chuan Chang

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: pdf(294.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Schema matching is a critical problem for integrating heterogeneous information sources. Traditionally, the problem of matching multiple schemas has essentially relied on finding pairwise-attribute correspondence. This paper proposes a different approach, motivated by integrating large numbers of data sources on the Internet. On this "deep Web," we observe two distinguishing characteristics that offer a new view for considering schema matching: First, as the Web scales, there are ample sources t ...

15 Selected IR-Related Dissertation Abstracts



Susanne M. Humphrey

November 1990 **ACM SIGIR Forum**, Volume 24 Issue 3

Publisher: ACM Press

Full text available: pdf(2.27 MB) Additional Information: [full citation](#), [abstract](#)

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16 XSQ: A streaming XPath engine



Feng Peng, Sudarshan S. Chawathe

June 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 2

Publisher: ACM Press

Full text available: pdf(1.37 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We have implemented and released the XSQ system for evaluating XPath queries on streaming XML data. XSQ supports XPath features such as multiple predicates, closures, and aggregation, which pose interesting challenges for streaming evaluation. Our implementation is based on using a hierarchical arrangement of augmented finite state automata. A design goal of XSQ is buffering data for the least amount of time possible. We present a detailed experimental study that characterizes the performance of ...

Keywords: XPath, streaming processing

17 Multi Relational Data Mining (MRDM): Probabilistic logic learning



Luc De Raedt, Kristian Kersting

July 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 1

Publisher: ACM Press

Full text available: pdf(1.98 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The past few years have witnessed an significant interest in probabilistic logic learning, i.e. in research lying at the intersection of probabilistic reasoning, logical representations, and machine learning. A rich variety of different formalisms and learning techniques have been developed. This paper provides an introductory survey and overview of the state-of-the-art in probabilistic logic learning through the identification of a number of important probabilistic, logical and learning concept ...

Keywords: data mining, inductive logic programming, machine learning, multi-relational

data mining, probabilistic reasoning, uncertainty

18 Beyond intratransaction association analysis: mining multidimensional intertransaction association rules



Hongjun Lu, Ling Feng, Jiawei Han

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Publisher: ACM Press

Full text available: pdf(1.31 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

In this paper, we extend the scope of mining association rules from traditional single-dimensional intratransaction associations, to multidimensional intertransaction associations. Intratransaction associations are the associations among items with the same transaction, where the notion of the transaction could be the items bought by the same customer, the events happened on the same day, and so on. However, an intertransaction association ...

Keywords: association rules, data mining, intra/intertransaction, multidimensional context

19 Parallel and distributed incremental attribute evaluation algorithms for multiuser software development environments



Gail E. Kaiser, Simon M. Kaplan

January 1993 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 2 Issue 1

Publisher: ACM Press

Full text available: pdf(3.09 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

The problem of change propagation in multiuser software development environments distributed across a local-area network is addressed. The program is modeled as an attributed parse tree segmented among multiple user processes and changes are modeled as subtree replacements requested asynchronously by individual users. Change propagation is then implemented using decentralized incremental evaluation of an attribute grammar that defines the static semantic properties of the p ...

Keywords: attribute grammar, change propagation, distributed, incremental algorithm, parallel, reliability

20 Queries and aggregation: Cleaning and querying noisy sensors



Eiman Elnahrawy, Badri Nath

September 2003 **Proceedings of the 2nd ACM international conference on Wireless sensor networks and applications**

Publisher: ACM Press

Full text available: pdf(256.08 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

Sensor networks have become an important source of data with numerous applications in monitoring various real-life phenomena as well as industrial applications and traffic control. Unfortunately, sensor data is subject to several sources of errors such as noise from external sources, hardware noise, inaccuracies and imprecision, and various environmental effects. Such errors may seriously impact the answer to any query posed to the sensors. In particular, they may yield imprecise or even incorre ...

Keywords: bayesian theory, noisy sensors, query evaluation, statistics, uncertainty, wireless sensor networks

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